Amateur Radio Newsline(tm) Report 1747 - February 4 2011

Amateur Radio Newsline report number 1747 with a release date of Friday, February 4, 2011 to follow in 5-4-3-2-1.

The following is a Q-S-T. The mass media claims ham radio is part of the uprising in Egypt but is it? Also ARISSAT-1 is now safely on the International Space Station, Australian hams keep emergency channels open for Cyclone Yasi and lots of action from the FCC. Find out the details on Amateur Radio Newsline(tm)report number 1747 coming your way right now. (Billboard Cart Here)

**

RADIO AND POLITICS: HAM RADIO AND THE EGYPT UPRISING

The mass media claims that ham radio has been an information channel out of Egypt during the uprising against President Hosni Mubarak, while others are not so sure. But the media still seems to be jumping in without any way to confirm its stories on ham radios involvement. Amateur Radio Newsline's Norm Seeley, KI7UP, is here with what we know and what we can only surmise:

--

Once you spend the time to vette all these stories of ham radio involvement in Egypt you realize not a one of them can be true.

First off, most reports are credited to unspecified hams or websites around the world. Not one callsign or name has been attached to any report so that it can be verified.

Second, if there were Egyptian hams on the air, it would be their neighbor hams in Israel and the world's "Big Gun DX Super-Stations," rather than Joe Ham with his dipole and 100 watt transceiver hearing them. But to date nobody has heard one word from any of the worlds well known DX'ers or the Israeli amateur radio community. That in itself is more than enough to make a reporter suspicious.

As we said, all reports so far have been rumors, most coming from websites sympathetic to the Egyptian people who are demonstrating. And some do claim that unnamed hams in their group have heard reports transmitted in Morse code of conditions in Cairo and elsewhere. Reports that at the time were impossible to confirm since Egyptian President Hosni Mubarak had banned all news reporting out of that nation including the pro-Arab Al Jazerra News Network. News reporting that has since been partially restored.

But lets take this a step further. If you bother to look up a listing

of hams licensed by the Egyptian government, the total is only about two dozen. Someone may claim a Morse message posted on a website sympathetic to the plight of the Egyptian people was delivered by ham radio, but if here are people transmitting from Egypt it's more likely to be that nations equivalent of unlicensed Freebanders than a person holding a valid SU prefix callsign. If there are stations sending reports in Morse, there is a far better chance that it's some fool in New York City, London or Paris taking advantage of the situation than a station in Cairo, Alexandria or Giza risking his or her life.

Of coarse for the moment we freely admit that this is all conjecture, but ask yourself this. If there were valid ham radio stations on the air from Cairo or anywhere in Egypt, who would be the ones hearing them? The answer as we said is the hams next door in Israel who have to be listening in because they can hear just about any signal coming out of Egypt. Also, the multi-million dollar DX and contest stations world wide can usually hear a pin drop on the other side of the world when band conditions are good. But with High Frequency band conditions in the doldrums, even for the very best of competition grade DX station installations would have little chance that any of the reported transmissions come from Egypt, if they exist at all.

For the Amateur Radio Newsline, I'm Norm Seeley, reporting what little is known from Scottsdale, Arizona.

--

One problem with ham radio is that most people who know how to use it in Egypt were probably trained by the military and may be opposed to the protests. Others may be wary of transmitting because they are worried about who might be listening.

The bottom line: It won't be until this uprising is over

that we might find out if ham radio really played any part

in the information flow out of Egypt. That is, if we ever

really do, find out.

(Various sources)

**

HAM RADIO IN SPACE: ARISSAT-1 NOW ON THE ISS

ARISSAT-1 is now safely on board the International Space Station and is being made ready for deployment.

The new ham radio bird made its trip to the I-S-S on-board a Russian Soyuz-U rocket carrying a Progress cargo vehicle that was launched from the Baikonur Cosmodrome in Kazakhstan. The Progress main cargo was fuel, oxygen, food and other supplies for the space station. It docked with the space station at 8:39 Central Standard Time on Saturday,

January 29th.

ARISSAT-1 is scheduled to be hand-launched during a spacewalk on February 16th. It features a new software defined transponder that will allow simultaneous FM, CW and BPSK transmissions on 2 meters. It also carries a traditional Mode U/V transponder that uses 70 centimeters as an uplink and 2 meters down to hams on the ground.

More information on ARISSAT-1 is available at the AMSAT North America website. It's in cyberspace at tinyurl.com/78nmh. (ANS, ARISSAT)

**

RESCUE RADIO: AUSTRALIAN HAMS READY FOR CYCLONE YASI

Australian hams have been keeping in touch via High Frequency radio and keeping a vital link alive during the passage of one of the more fierce and expansive tropical cyclones to hit the North East coast of Australia in recent times. Amateur Radio Newsline's Bruce Tennent, K6PZW, has the details:

--

Severe tropical cyclone Yasi, named by the Regional Specialist Meteorological Center at Nadi, Fiji, tracked from its breeding ground east of Vanuatu to make landfall on Australias far North Queensland Coast, during late Wednesday, February 2nd.

According to a report from Gavin Reibelt, VK4ZZ, in Townsville, North Queensland, the storm system was so vast that it affected communities along a 900 kilometer stretch of coast from Cooktown to Mackay and 500 kilometers inland to the cities of Croydon, Richmond, Charters Towers and Clermont.

A storm surge forecast of between 3 and 5 meters along with high seas forced the evacuation of many coastal facilities such as nursing homes, caravan parks and low lying residential areas.

VK4ZZ says that a massive effort on Tuesday February 1st was undertaken at construction sites, business areas, government centres, tourist facilities and farms to secure everything to prevent the incidence of flying debris during the onset of hurricane force winds.

Schools in most areas affected were closed on Wednesday and Thursday, with only those not damaged by the passage of Yasi scheduled to reopen on Friday.

VK4ZZ says that while making sure that their families and houses were safe, radio amateurs within the warning area and across the country kept in touch via HF Radio. They kept a listening watch on Queensland WICEN frequency of 7.075 MHz and regular contact via the morning Gnarly

Net on 3.600 MHz and the afternoon Friendly Net on 7.115 MHz. These regular contacts kept the communication lines open just in case the well engineered cyclone rated commercial telecommunication networks failed. Operators also maintained operations on VHF and UHF during the phenomenal weather conditions.

A number of Radio Amateurs who are members of the Australian Defense Force have been involved with flood relief operations during the previous weeks. VK4ZZ says that they are now assisting with the relief effort following the passage of tropical cyclone Yasi.

For the Amateur Radio Newsline, Im Bruce Tennant, K6PZW, in Los Angeles.

--

Radio Amateurs living in the disaster area are now picking up the pieces, getting their stations back up and running as the cyclone season in Northern Australia is not over until the end of April and there might be another call to action during the months ahead. (VK4ZZ)

**

RESCUED RADIO RELIC: ANTIQUE RADIO FOUND IN VK FLOOD DEBRIS

Still from down-under, Radio 4BC in Brisbane along with The Toowoomba Chronicle say that among the tones of flood debris, Lockyer Valley resident Howard Reck thinks he has stumbled across someone's family heirloom. Three days after the region was hit by floodwater, Reck found what he believed to be a World War II or Korean War antique radio, 30 kilometres downstream from Grantham.

peaking on 4BC he explained how it looked like one of those big units seen in the Mash TV show, but has a Polish name engraved at same stage on the rear of the metal cabinet. If you are the item's rightful owner, and can provide information about its special markings, contact Chronicle reporter Anthea Gleeson by e-mail to anthea (dot) Gleeson (at) thechronicle (dot) com (dot) au.

**

RESCUE RADIO: HAM RADIO VS. THE SHOWS OF 2011

--
AUDIO: CHIPPING ICE
--

That's the sound of one Amateur Radio Operator trying to clear a path on his driveway so he can head down to the local Emergency Operations Center. Hams from Texas to New England were put on alert this week as a massive winter storm swept across the country covering everything with 2 inches of ice and nearly two feet of snow. Chicago, Michigan and Northern Indiana got over 20 inches of snow in 24 hours as blizzard conditions made travel difficult. Thousands were left without power for several days as crews repaired power lines pulled down by the weight of ice and strong winter winds.

Amateur radio operators reported bent antenna elements and high S-W-R from the thick ice coating as they began to report local storm damage to various Emergency Operations Centers.

In Chicago, hours after the snow stopped falling traffic ground to a halt. The iconic Lake Shore drive had over 200 cars, trucks and buses stuck and abandoned.

Across central Indiana and western Ohio a think layer of ice covered roads and sidewalks making travel almost impossible. Most schools and business were closed as State Emergency Management Officials asked residents to "just stay home".

By the weekend, temperatures continued to drop and most people found it impossible to chip or scrape they way clear of the think icy build up.

--
Audio: Scraping
--

Winter weary residents are just hoping for an early spring.

Reporting for Amateur Radio Newsline, this is Jack Parker, W8ISH.

**

BREAK 1

>From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the N6KRV repeater of the Sequoia Amateur Radio Group of Lake Isabella, California.

(5 sec pause here)

**

RESCUE RADIO: FCC TAKES ANOTHER STEP TOWARD NATIONWIDE INTEROPERABLE RADIO SYSTEM

The Federal Communications Commission has adopted a Third Report and Order and Fourth Further Notice of Proposed Rulemaking that it says will significantly advance communications interoperability for our Nation's first responders. Amateur Radio Newsline's Mark Abramovich, NT3V, is here with the details:

--

The rules adopted and those proposed in the January 25th Order and Fourth Further Notice of Proposed Rulemaking support the build out of robust, dedicated and secure mobile broadband networks specifically for rescue radio service. The FCC says that these will enable public safety broadband users to share information, videos, photos and emails across

departments and jurisdictions nationwide for day-to-day operations and during large-scale emergencies.

The Order and Fourth Further Notice of Proposed Rulemaking requires all 700 MHz public safety mobile broadband networks to use a common air interface called Long Term Evolution or LTE. This to support roaming and interoperable communications, The NPRM seeks comment on additional rules to enable nationwide interoperability.

The FCC says that its action builds on the technical requirements that state and local 700 MHz broadband waiver recipients are already subject to in the early buildout of their regional public safety broadband networks.

The Fourth Further Notice of Proposed Rulemaking seeks public comment on, among other things the architectural vision of the network; the effectiveness of open standards; interconnectivity between networks; network robustness and resiliency along with several other key points. The deadlines for public comments and reply comments on the Fourth Further Notice of Proposed Rulemaking are 45 days and 75 days, respectively, after publication in the Federal Registry.

For the Amateur Radio Newsline, I'm Mark Abramowicz, NT3V, in Philadelphia.

--

More on this one as a downloadable Word file is at tinyurl.com/interoperableradio (FCC, CGC)

**

RESCUE RADIO: FCC SEEKS COMMENTS ON ARIEL COMMUNICATIONS ARCHITECTURES

The FCC's Public Safety and Homeland Security Bureau is seeking comment regarding the creation of low-altitude aerial telecommunications architectures. Ones that are accessible, reliable, resilient, cost-effective and secure. They also have to be systems which are capable of providing public safety and emergency response personnel the capability to communicate during the critical restoration period after a major disaster over a multitude of communications platforms. These might include High Frequency, UHF and VHF two-way radio, cellular telephones, the Internet, and satellite circuits.

Specifically being looked at are such aerial telecommunications architectures such as unmanned aerial vehicles or balloon mounted or unmounted systems. These are believed to be communications platforms that can be rapidly deployed to an area within the first few hours after major natural disasters or terrorist attacks. As such, the Public Safety and Homeland Security Bureau is seeking comment on the means of coordinating and managing such solutions before and during deployment, what public safety agencies may be involved in the operations of such systems or those who own communications operations that may be adversely impacted by such systems.

This inquiry has been designated as PS Docket No. 11-15. Interested

parties may file comments to it on or before February 28th. More details on PS Docket No. 11-15 is on line also as a downloadable Word file at tinyurl.com/4agoxg2

(FCC, CGC)

**

ENFORCEMENT: UNLICENSED CALIFORNIA BROADCASTER WARNED OFF THE AIR BY FCC

The Los Angeles Office of the Federal Communications Commission has issued a Notice of Unlicensed Operation to Robert Gwynne of Covina, California. This, after confirming that an unlicensed broadcast radio station on 107.9 MHz was allegedly operating from his residence.

According to the FCC, its records show that no license was issued for operation of a broadcast station at this location on 107.9 MHz in Covina, California. Based on this the regulatory agency told Gwynne in its January 12th notification that this unlicensed operation must be discontinued immediately.

The FCC also warned Gwynne that the operation of radio transmitting equipment   without a valid radio station authorization constitutes a violation of the Federal law. As such it could subject the operator of an illegal station to severe penalties, including fines, seizure of transmitting equipment and criminal sanctions including imprisonment. (FCC)

**

ENFORCEMENT: FCC CITES COMPANY OVER SALE OF CELLPHONE JAMMERS

The FCC has issued an Official Citation to DeadlyDeal.com. This based on allegations that between August 25, 2008 and January 16, 2010 the company offered for sale a cellular telephone jamming device called the Blocker.

While DeadlyDeal.com says that it no longer offers these devices to its clientel, the FCC states that even the manufacturing or importation of such units to United States shores is a direct violation of its rules. This is because jamming devices cannot be certified or authorized because the main purpose of a jamming device is to block or interfere with radio communications.

In its communication the FCC warns DeadlyDeal.com that if after receipt of the Citation that should the company violate the Communications Act or the FCC's Rules that the regulatory agency can impose monetary forfeitures of up to $16,000 for each such violation or each day of a continuing violation and up to $112,500 for any single act or failure to act. In addition, violations of the Communications Act or the Rules can result in seizure of equipment as well as criminal sanctions, including time behind prison bars.

Deadly Deal was given 30 days following the Janyary 26th date of the Citations release to respond either through a personal interview at the

closest FCC office, or by filing a written statement with the agency.

**

RADIO ON THE WEB: WWW.RADIOSHACKCATALOGS.COM

Want to spend some time strolling vicariously through the history of the electronics retailing? Now you can thanks to a website called RadioShackCatalogs.com.

The site contains catalogs for the company that date all the way back to 1939. Each one is animated in a way that a click of your mouse lets you turn the pages or zoom in to see that special part ofd item that evokes a memory of days gone by. The site also has the complete history of the company along with the story of how in 1963, Charles Tandy purchased Radio Shack Corporation when it was on the verge of bankruptcy for only $300,000 and built it into the mega corporation it is today.

Whether or not you are a fan of Radio Shack you will likely get a thrill of this trip back in time. You will find it at www.RadioShackCatalogs.com on the World Wide Web. (K3MSB)

**

NAMES IN THE NEWS: RADIO RECORD OF 2317 KM ON 2.4 GHZ ACROSS THE TASMAN SEA

A new distance record has been set between Steve Hayman, ZL1TPH, and Adrian Pollock, VK4OX. This for the first trans-Tasman Sea contact on 13 Centimeters over a path of 2317 Kilometers. That's 1439 miles on a band considered totally line of sight.

ZL1TPH lives in Orewa, New Zealand. He was running 80 to 100 watts at the feed of a 1 meter dish. VK4OX was in Bald Knob, Queensland, Australia pushing only about 20 watts to the feed of a 24 dBi Gridpack antenna about 9 meters off the ground.

Only a few years ago a contact such as this would likely not have been possible. Today's technology has made it so. (ZL4PLM via ZL2BHF)

**

NAMES IN THE NEWS: W2UDT NAMED ARRL HUDSON DIV VICE DIRECTOR

ARRL President Kay Craigie, N3KN, has appointed William Hudzik, W2UDT, of Gillette, New Jersey, to serve as Vice Director of the League's Hudson Division for the remainder of the current term that expires January 1, 2013.

Hudzik is a Senior Engineering Aide and Project Manager for Morris County, New Jersey. His wife Maryann is Morris County Superior Court judge.

Hudzik fills the vacancy created when Frank Fallon, N2FF, retired from the ARRL Board of Directors after more than 14 years of service. As

reported last week, ARRL Hudson Division Vice Director, Joyce Birmingham, KA2ANF, assumed the Director position when Fallon tendered his resignation from the post. (ARRL)

**

NAMES IN THE NEWS: 741 QSL CARDS SO FAR TO CELEBRATE W0GFQ 100TH BIRTHDAY - MORE WANTED

And Quarter Century Wireless Association President Bob Roske, N0UF, reports that as of February 2nd, the request to have hams worldwide send 100th birthday greeting QSL cards to World Radio Labs founder Leo Meyerson, W0GFQ, has so far brought 741 responses from the amateur radio community. Meyerson who celebrates his personal centenary later this month will have this event celebrated on February 24th by QCWA Chapter 154 in West Palm Springs, California. If you have not done so already, please take a moment, write the words Happy Birthday Leo, and mail it to Leo Meyerson, W0GFQ, 19 Park Lane, Rancho Mirage, California, 92270. We are 100 percent certain that Leo will enjoy hearing from you. (N0UF)

**

BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

**

EMERGING TECHNOLOGY: VIDEO DNA MAY PUT AN END TO MOVIE PIRACY

Video pirates beware. A new system called Video DNA may land you behind prison bars. Amateur Radio Newsline's Frank Haas, KB4T, has more:

--

Three Israeli researchers have come up with what they believe to be a sure fire way to end video piracy. Dr. Alex Bronstein working with his twin brother Michael and Israeli researcher Proffessor Ron Kimmel, has developed a way of treating video footage like DNA.

Dr. Bronstein who is with of Tel Aviv University's Department of Electrical Engineering says that it is not only members of the animal and plant kingdom that can have DNA. He says if a DNA test can identify and catch criminals, his group believes that a similar code might be applicable to video. Then if the code were copied and changed, it would be obvious to law enforcement.

As video does not have a real genetic code like members of the animal kingdom, Dr. Bronstein and his team created a DNA equivalent that can

be applied to video files. The result is a unique DNA fingerprint for each individual movie anywhere on the planet. When scenes are altered, colors changed, or film is bootlegged on a camera at the movie theatre, the film can be tracked and traced on the Internet. And says Dr. Bronstein, like the films, the video thieves themselves can be tracked and caught.

I'm Frank Haas, KB4T.

--

If the entertainment industry adopts this new video DNA codeing, it could mean that a lot of video pirate could eventually be looking at the world from the other side of prison bars. (adapted from Science Daily)

**

EMERGING TECHNOLOGY: SMARTER ID TAGS THAT USE LESS ENERGY

Researcher Bjorn Nilsson's research has developed a system that makes RFID tagging technology even more effective and more energy efficient. Nillson has come up with a new protocol or rules for communication between readers and tags that use less energy and permit reader unit batteries last longer. This means that it is now possible to produce simpler and cheaper tags.

Today's active tags have been relatively limited since they have been energy-consuming and expensive to produce. There has long been a demand for more energy efficient tags with a longer lifespan. There's also the quirk that if multiple tags pass a reader at the same time, it might be that all tags are not read. But with Nilsson's protocol tags cannot interrupt one another leading to greater accuracy.

The next step is to develop an active tag with a single circuit and Nilsson is already working on this. Together with his colleague Emil Nilsson at Halmstad University, he is running a project where Bj"rn's job is to see to it that readers and tags communicate with each other, while Emil is developing the electronics to make it all more efficient.

RFID tags are found on numerous items in a great number of different areas where someone wants to trace, identify, and store information. Its believed that industries such as logistics, transportation, and animal husbandry can be made considerably more efficient with the aid of Nillsson's more modern tags. (VHF Reflector, KB9TVD)

**

EMERGING TECHNOLOGY: THE VALUE OF SCIENCE IN THE PUBLIC RYE

Still with emerging technology, most US citizens value the nation's scientific achievements, but unlike most scientists, they often pick and choose which scientific findings they agree with. This, according to a recent survey conducted by the famed Pew Research Center.

The center conducted the wide-ranging telephone survey in collaboration

with the American Association for the Advancement of Science. The research included responses from 2,533 scientists in the American Association for the Advancement of Science, and 2,001 public respondents.

Among the findings it was noted that while nearly 9 out of 10 scientists accept the idea of evolution by natural selection, only a third of the public does. And while 84 percent of scientists say the Earth is getting warmer because of human activity, less than half of the public agrees with that. Also, although 27 percent of Americans said scientific advances are the nation's greatest achievement, that was down from 47 percent in the group's May 1999 survey.

According to the survey, most scientists and the public agree it is appropriate for scientists to take part in political debate over issues such as stem cell research. And even Americans who disagree with scientific conclusions think highly of scientists. (Adapted from Science OnLine)

**

RADIO IN SPACE: THE NEW LONG WAVELEGNTH ARRAY

Whats being termed as an innovative new radio telescope array is now under construction in central New Mexico. One that will eventually harness the power of more than 13,000 antennas and provide a fresh eye to the sky.

This antenna farm will form what is being called the Long Wavelength Array. This is a radio telescope designed to survey the sky from horizon to horizon over a wide range of frequencies in the High Frequency spectrum from 20 to 80 MHz.

The first station in the Long Wavelength Array, with 256 antennas, is scheduled to start surveying the sky by this summer. When complete, the entire system will consist of 53 station locations, with a total of 13,000 antennas strategically placed in an area nearly 248 miles in diameter.

The overall receiving system is expected to provide sensitive, high-resolution images of a region of the sky hundreds of times larger than that of a full moon. Investigators believe that these images could reveal radio signals coming from planets outside our solar system, and thus would turn out to be a new way to detect these worlds. In addition to planets, the telescope will hopefully reveal a host of other cosmic phenomena.

The University of New Mexico is the lead researcher in this project,. NASA's Jet Propulsion Laboratory in Pasadena, California is providing the advanced digital electronic systems, which represent a major component of the observatory. (Adapted from Space Daily)

**

ON THE AIR: W4H CELEBRATES THE 6th ANNUAL GREAT HAMFEST OF THE NORTH

On the air, members of the Caribbean Amateur Radio Group have activated the special event call W4H and will be on the air with it through February 11th. This, as part of the 6th Great Hamfest of the North, which was to be held on Sunday, February 6th at the Coliseum of the city of Hatillo, Puerto Rico. Modes being used are RTTY, PSK31 and SSTV. QSL information is on line at QRZ.com (WP3GW}

**

DX

In DX, KA1YMX stroke 8 P will be active from Barbados while on vacation between February 26th and March 5th. His operation will be on CW and SSB using an Elecraft K 2. No other details are available. QSL via his home callsign.

G3RWF will be active as 5X1NH from Fort Portal in western Uganda between February 20th and April 14th. He prefers to operate CW but plans to also be on the Digital modes with some SSB on all bands except 160 meters QSL via his home callsign or electronically using Logbook of the World.

Finally, PE1KL and PA2LS will be operational as 9G5LK near the village of Ampenyi, Ghana between April 28th and May 6th. Their activity will be on 80 through 10 meters using SSB, PSK31 and RTTY.   QSL via PA2LS.

(Above from various DX news sources)

**

THAT FINAL ITEM: SPAM BROADBAND MESSAGE BLOWS UP SUICIDE TERRORIST

And finally this week, proof positive that spam e-mail to a cellular telephone can be deadly. This is especially true if you happen to be a negligent terrorist with little knowledge of radio. Amateur Radio Newsline's Bill Pasternak, WA6ITF, is in our Newsroom with the rather bizarre details:

--

What Russia's security calls a "Black Widow" suicide bomber who was apparently planning a terrorist attack in central Moscow on New Year's Eve was killed before she could blow herself up. This after an unexpected text message set off her bomb too early. The unnamed woman is thought to have been part of the same group that recently struck Moscow's Domodedovo airport. She apparently intended to detonate a suicide belt in a busy area near Red Square on New Year's Eve in an attack that could have killed hundreds. But security sources believe a spam message from her mobile phone operator wishing her a happy new year received just hours before the planned attack triggered her suicide belt, killing her but nobody else. According to the UK newspaper the Telegraph, the woman was at her Moscow safe house at the time getting ready with two accomplices. Both of them survived and were seen fleeing the scene. The newspaper says that Islamist terrorists in Russia often use cheap unused wireless mobile phones as detonators. The phones are usually kept switched off until the very

last minute. But in this case, Russian security sources believe the terrorists were negligent and left this one turned on. That carelessness on the terror group's part likely saved many, many innocent lives.

For the Amateur Radio Newsline, I'm Bill Pasternak, WA6ITF, in the Newsroom in Los Angeles.
--
According to the newspaper, Russian security sources believe the new year's eve bomber and the airport bombers may have been members of a suicide squad trained in al-Qaeda strongholds in Pakistan and sent to the Russian capital last December to target the city's transportation system. (UK Telegraph)

**

NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's W-I-A News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is Newsline (at) arnewsline (dot) org. More information is available at Amateur Radio Newsline's only official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline, 28197 Robin Avenue, Santa Clarita California, 91350

For now, with Bill Pasternak, WA6ITF, at the editors desk, I'm Don Wilbanks, AE5DW, saying 73 and we thank you for listening.

Amateur Radio Newsline(tm) is Copyright 2011. All rights reserved.